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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/911,980	07/24/2001	Fabio Casati	10008270-1	3418
7590 05/06/2004			EXAMINER	
HEWLETT-PA	ACKARD COMPANY	VO, TED T		
Intellectual Property Administration P.O. Box 272400			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

 		Ar	plication No.	Applicant(s)	1-9			
		09	9/911,980	CASATI ET AL.				
Office Action Summary		Ex	aminer	Art Unit				
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Period fo	The MAILING DATE of this comm or Reply	unication appears	on the cover sheet	with the correspondence ad	ldress			
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Status								
1)⊠	Responsive to communication(s)	filed on 24 July 2	<u>001</u> .					
2a) <u></u>	This action is FINAL. 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the pra	ictice under Ex pa	arte Quayle, 1935 C	D. 11, 453 O.G. 213.	•			
Dispositi	on of Claims							
4)⊠	Claim(s) 1-38 is/are pending in th	e application.						
	4a) Of the above claim(s)i		rom consideration.					
5)□	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-38</u> is/are rejected.							
·	Claim(s) is/are objected to							
8)∐	Claim(s) are subject to res	triction and/or ele	ction requirement.					
Applicati	on Papers							
9) 🗌	The specification is objected to by	the Examiner.						
10)	The drawing(s) filed on is/a	re: a)∐ accepte	d or b) objected	to by the Examiner.				
	Applicant may not request that any o	bjection to the draw	ring(s) be held in abe	/ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) include	•		• • •	, ,			
11)	The oath or declaration is objected	d to by the Exami	ner. Note the attach	ned Office Action or form P1	ГО-152.			
Priority u	ınder 35 U.S.C. § 119							
12)	Acknowledgment is made of a cla	im for foreign pric	rity under 35 U.S.C	. § 119(a)-(d) or (f).				
a)[☐ All b)☐ Some * c)☐ None of	:						
	1. Certified copies of the prior	•						
	2. Certified copies of the prior				_			
	3. Copies of the certified copi	•		en received in this National	Stage			
* 0	application from the Interna	-		at raceived				
~ 3	See the attached detailed Office ad	cuon for a list of th	ie ceruited copies n	ot received.				
Attachmen	t(s)							
	e of References Cited (PTO-892)			w Summary (PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review			lo(s)/Mail Date of Informal Patent Application (PTC	O-152)			
	mation Disclosure Statement(s) (PTO-1449 r No(s)/ Mail Date <u>2</u> .	or PTO/SB/08)	5) Notice (6) Other: _		J-132j			
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DETAILED ACTION

This action is in response to the application filed on 7/24/2001.
 Claims 1-38 are pending in the application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Casati et al., "eFlow: A Platform for Developing and Managing Composite E-Services", IEEE, April 2000.

 As per claim 1: Casati discloses,

"A model for compiling a specification of a process definition comprising:

service nodes, wherein each of said service nodes is a representation of a consumer service (See page 344, right column section 4.1, referring to "generic service node"; for example, "Furniture moving services"); and

a first flow diagram sequencing said service nodes as a representation of the process definition (see page 346, the flow in the Figure 7, referring to "generic Process Definition").

As per claim 2: Casati discloses, "The model as set forth in claim 1 further comprising:

method nodes, wherein each of said method nodes is a representation of executable operations inherent to a consumer service represented by one of said service nodes" (see Figure 7, for example, "Storage Space rental" [method node]; see page 342, left column, first full paragraph, "different eMove

Application/Control Number: 09/911,980

Art Unit: 2122

properties).

services", see section 3, "service execution and data exchange" [representation of executable operations], see page 343, section 3, "service execution and data exchange" [representation of executable operations]).

As per claim 3: Casati discloses, "The model as set forth in claim 2 further comprising: wherein each of said service node is expandable into a second flow diagram of method nodes" (see Figure 7, for example, the diagram shown with "process definition", or See Figures 2-3, referring to Emove Levels).

As per claim 4: Casati discloses, "The model as set forth in claim 1 wherein each of said service nodes is executed by accessing an electronic service registered on an electronic service platform" (See page 341, right column, first full paragraph, "eFlow").

As per claim 5: Casati discloses, "The model as set forth in claim 1 wherein each of said service nodes comprises: consumer service-level properties" (For example, see Figure 7, referring to "Furniture Moving Service").

As per claim 6: Casati discloses, "The model as set forth in claim 5 wherein said consumer service-level properties comprises: a service search recipe or service selection rule" (For example, see Figure 7, service search recipes for Furniture Moving Services is a sub set of its service node).

As per claim 7: Casati discloses, "The model as set forth in claim 5 wherein said consumer service-level properties comprises: a service reuse" (See page 345, section 5, referring to "service data repositories").

As per claim 8: Casati discloses, "The model as set forth in claim 5 wherein said consumer service-level properties comprises: a service-inherent method flow" (For example, see Figure 1, "service provide B" where "B" is inherent in Billing, Credit card Verification, Credit check, etc.).

As per claim 9: Casati discloses, "The model as set forth in claim 1 wherein each of said service nodes comprises: consumer authentication properties" (See Figure 1, In Service Provider B, such a "Billing", "Credit card Verification", or "Credit check", etc., requires consumer authentication properties).

As per claim 10: Casati discloses, "The model as set forth in claim 1 wherein each of said service nodes comprises: consumer and service certification properties" (See Figure 1, In Service Provider B, for example, such a "Storage Space rental", or "Truck rental", etc., requires consumer certification

As per claim 11: Casati discloses, "The model as set forth in claim 1 wherein each of said service nodes comprises: service-level exception handling rules" (See page 345, left column, section 4.2, first paragraph).

As per claim 12: Casati discloses, "The model as set forth in claim 1 wherein each of said service nodes comprises: the definition of interaction flow, defining how the interaction with the service is conducted" (See page 345, left column, section 4.2, first paragraph, "new laws or business policies").

As per claim 13: Casati discloses, "The model as set forth in claim 2 wherein each of said method nodes comprises: representations of operations executed within the context of an electronic service registered with a electronic services platform" (See page 344, right column, see last paragraph, and referring "eFlow" as electronic service platform).

As per claim 14: Casati discloses, "The model as set forth in claim 13 each of said method nodes further comprises: the service operation to call" (See pages 342-343, referring to Emove Levels).

As per claim 15: Casati discloses, "The model as set forth in claim 13 each of said method nodes further comprises: invocations for a specific operation of the method node" (See page 343, section 3, see right column, last paragraph, "parallel invocation").

As per claim 16: Casati discloses, "The model as set forth in claim 13 each of said method nodes further comprises: input data, including formatting and handling specifications" (See page 346, Figure 7, referring to "data collection").

As per claim 17: Casati discloses, "The model as set forth in claim 13 each of said method nodes further comprises: output data, including formatting and handling specifications" (See page 346, Figure 7, referring to "data collection").

As per claim 18: Casati discloses, "The model as set forth in claim 13 each of said method nodes further comprises: method-level exception handling rules" (See page 344, left column, see section 4.2, first paragraph).

As per claim 19: Casati discloses, "The model as set forth in claim 1 wherein said specification is a composition of individual electronic services" (See abstract, referring to "composite").

As per claim 20: Casati discloses, "The model as set forth in claim 1 applied in a distributed computer network environment" (See abstract, referring to "Web").

As per claim 21: Casati discloses, "The model as set forth in claim 1 wherein said process is a workflow" (See abstract, referring to "eFlow").

As per claim 22: Casati discloses, "The model as set forth in claim 1 wherein said process is a composite electronic service" (See abstract, referring to "composite e-service").

As per Claim 23: Regarding limitation: "A computer tool for compiling a specification of a process comprising:

computer code for representing a plurality of individual services as service nodes, wherein each of said service nodes is representative of a respective service invocation setup phase for each of the individual services; and computer code for compiling a set of the service nodes into a composite service forming a generically defined flow said process", the claim is a computer tool that has claimed functionality corresponding to Claim 1. Claim is rejected in the same reason set forth in connecting to the rejection of Claim 1.

As per Claim 24: Regarding limitation: "The computer tool as set forth in claim 23 comprising: said service nodes are expandable into method nodes, wherein method nodes are representative of at least one respective operation inherent to a respective one of the individual services which is expanded thereto" (see Figure 7, for example, the diagram shown with "process definition", or See Figure 1, nodes surrounding Service Providers).

As per Claim 25: Regarding limitation: "The computer tool as set forth in claim 24 comprising: said method nodes represent a plurality of inherent executable operations associated with a respectively associated one of the individual services" (see Figure 7, For example, node "Storage space rental").

As per Claim 26: Regarding limitation: "The computer tool as set forth in claim 23 comprising: each said service nodes provides executable functions related to setting up communication with each of said individual services" (see page 341, section Introduction, right column, referring to "invoking several other basis or composite services").

As per Claim 27: Regarding limitation: "The computer tool as set forth in claim 23 comprising: the composite service is a service node flow specifying generic functionalities common to said process" (see Figure 1, page 342).

As per Claim 28: Regarding claim limitation:

"A computer tool for compiling a specification of a process and executing the specification of the process comprising:

computer code for representing a plurality of individual services as service nodes, wherein each of said service nodes is representative of a respective service invocation setup phase for each of the individual services (See action in Claim 1 above);

computer code for compiling a set of the service nodes into a composite service forming a generically defined flow of said process (See action in Claim 1 above);

computer code for executing the specification of the process represented by the generically defined flow by expanding each node of said set of the service nodes into method nodes (See action in Claim 3 above);

invoking functionalities of the individual services thereby, wherein each of said method nodes represent a plurality of inherent executable operations associated with a respectively associated one of the individual services" (See action in Claim 2 above).

As per Claim 29: Casati discloses, "A method for structuring individual electronic services registered on an electronic service platform, the method comprising:

providing a top level having service nodes representative of extracted common elements of the composite service (Referring to "eFlow", or "Service Providers", shown in Figure 1)

providing a subsidiary level, wherein said service nodes are expanded into method nodes for execution of specific operations inherent to a respective electronic service represented thereby; (See Figure 7, Referring to "Furniture Moving Service") and

providing linking nodes in the top level for connecting said service nodes into a process flow, wherein said flow forms a hierarchical specification having a sequential series of said individual electronic services (See Figure s, 2, 3, 4 etc.).

As per Claim 30: Casati discloses, "The method as set forth in claim 29 further comprising: providing event nodes" (see Figure 7, for example, "Storage Space rental" [event node]).

As per Claim 31: Casati discloses, "The method as set forth in claim 30 in an internet environment" (Referring to the term e-service).

As per Claim 32: Casati discloses, "The method as set forth in claim 31 further comprising: executing a process for providing electronic services over the internet environment by executing the hierarchical specification" (See Figure 7).

As per Claim 33: Casati discloses,

"A method of executing a given composite process, defined as including a plurality of individual electronic services registered on an electronic services platform, the method comprising:

segregating generic electronic services common to the given composite process from operations respectively inherent to each of said generic electronic services (See Figure 1, or referring to e-Service); compiling a composite process flow using said generic electronic services; (Referring to eFlow); and

invoking each operations functionalities of each of said generic electronic services by expansion of each of said generic electronic services into said operations only as needed to continue said composite process" (see Figure 7, for example, "Storage Space rental" [operations functionalities]. See page 342, left column, first full paragraph, "different eMove services" [expansion], and see section 3, "service execution and data exchange" [operations]).

As per Claim 34: Casati discloses,

"The method as set forth in claim 33, said compiling further comprising: compiling a plurality of the individual electronic services (eFlow) as associated with a search for data associated with said given composite process having at least one requirement from each of said individual generic electronic services" (value-added service, page 341, section 1).

As per Claim 35: Casati discloses,

Application/Control Number: 09/911,980

Art Unit: 2122

"The method as set forth in claim 33, said compiling further comprising: compiling a composite process definition as a sequential series of service nodes, wherein each said service node is a specification related to invoking communications with a specific one of said service nodes" (See Figures 2-3, etc.).

As per Claim 36: Casati discloses,

"The method as set forth in claim 35 said executing further comprising: including method nodes for each of said service nodes wherein said method nodes are invocations of operations inherent with an associated one of the generic electronic services" (See page 343, section 3, see right column, last paragraph, "parallel invocation").

As per Claim 37: Casati discloses,

"A computer tool for composing electronic service searching runtime criteria comprising:

computer code for structuring a plurality of service nodes (See Figure 1), wherein each of said service nodes is representative of a generic service and includes only those criteria essential to invoking said service (See page 344, right column section 4.1, referring to "generic service node" such as Furniture moving services);

computer code for invoking a plurality of method nodes, wherein a set of method nodes is representative of operations inherent to an associated one of said service nodes (see Figure 7, for example, "Storage Space rental" [method node]; See page 342, left column, first full paragraph, "different eMove services", see section 3, "service execution and data exchange" [representation of executable operations], see page 343, section 3, "service execution and data exchange" [representation of executable operations]); and

computer code for linking nodes sequencing said service nodes into a coherent flow representative of a composite service including more than one generic service (See Figure s, 2, 3, 4 etc.).

As per Claim 38: Casati discloses, "The tool as set forth in claim 37 comprising; computer code for handing event nodes" (See page 345, left column, section 4.2, first paragraph).

Application/Control Number: 09/911,980

Art Unit: 2122

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ramanathan et al., US No. 6,182,136 B1, discloses a service model in a network.

Damiani et al., "Fine grained access control for SOAP E-services", ACM 2001, discloses ascess control for SOAP e-service.

8

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted T. Vo whose telephone number is (703) 308-9049. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM ET. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam, can be reached on (703) 305-4552.

The fax phone numbers:

(703) 872-9306 (for formal communication intended for entry);

(703) 746-5429 (for informal or draft communication, please label "PROPOSED" or "DRAFT").

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

TTV

Art Unit: 2122 April 29, 2004 TUAN DAM SUPERVISORY PATENT EXAMINER